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Patent Claims:

1. A microprocessor controlled toy building element (101, 501) comprising

a midroprocessor (102, 507) which can execute instructions in the form of a program stored in a memory (117, 509), said memory comprising subprograms (R1, R2,..., R6) which can be activated individually by specifying a list of subprogram calls;

coupling means for coupling with building elements which can be moved by activation means, said activation means being controllable in response to the instructions,

character 1/2 ed by comprising

communications means (504, 505) which can transmit said function calls to a second toy building element (502) for programming of it.

- 2. A microprocessor controlled toy building element according to claim 1, c h a r a c t e r i z e d by comprising a display (104, 508) which can show a plurality of icons (204, 205, 206, 207, 208), each of which represents instructions to the microprocessor (102, 507), and which can be activated by a user for programming of the microprocessor.
 - 3. A microprocessor controlled toy building element according to claims 1-2, c h a r a c t e r i z e d in that instructions, corresponding to an icon, implement a rule $(R1, R2, \ldots, R6)$ by controlling the activation means in

response to signals from sensors connected to the toy building element.

- 4. A microprocessor controlled toy building element ac5 cording to claims 1-2, c h a r a c t e r i z e d by comprising a receiver (504, 505) for wireless reception of
 instructions.
- 5. A microprocessor controlled toy building element ac10 cording to claims 1-2, c h a r a c t e r i z e d by comprising a receiver (505) for reception of infrared signals.
- 6. A microprocessor controlled toy building element ac-15 cording to claims 1-2, c h a r a c t e r i z e d by comprising a keyboard for manual entering of instructions.
- 7. A microprocessor controlled toy building element according to claims 1-2, c h a r a c t e r i z e d by comprising a transmitter (504, 505) for wireless transmission of instructions to the second toy.
- 8. A microprocessor controlled toy building element according to claims 1-2, c h a r a c t e r i z e d by comprising a transmitter (504) for transmission of said function calls via a light guide (503).
- 9. A microprocessor controlled toy building element according to claims 1-2, c h a r a c t e r i z e d by comprising an elongated light guide (503) through which visible light can be transmitted in its longitudinal direction, said light guide (503) being adapted to allow part of the light transmitted to escape through its sides.

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10. A toy building set comprising microprocessor controlled toy building elements according to any one of claims 1-9, c h a r a c t e r i z e d by comprising first and second microprocessor controlled toy building elements (501, 502), where the second microprocessor controlled toy building element (502) comprises a memory (516) with subprograms (R1, R2,..., R6) which can be activated individually by receiving subprogram calls from the first toy building element (501).

11. A toy building set according to claim 10, c h a r - a c t e r i z e d in that the first microprocessor controlled toy building element comprises operating means (508) for making a program, and that the second microprocessor controlled toy building element comprises operating means for activating just one of several programs.

any means for activation provided for the second fo